

XXIX. *Descriptions of the Chrysomelidæ of Australia, allied to the Genus Cryptocephalus.* By W. W. SAUNDERS, Esq., F.L.S., &c.—continued from p. 154.

[Read 1st April, 1844, &c.]

IN a paper on the *Chrysomelidæ* of Australia, allied to *Cryptocephalus*, published in the last part of the Transactions of the Entomological Society, I pointed out that the sub-genera, which included the species I had under consideration, formed two divisions, distinguished by the lateral margins of the thorax being smooth in the first division, and dentate or rough in the second division.

Having described, in the paper above alluded to, the species of the first division, I shall now proceed to describe those of the second, which arrange themselves into three sub-genera, distinguished as follows :

SECOND DIVISION.

(Lateral margins of the thorax dentate, or uneven.)

Antennæ, long . . .	} filiform . . . . .	<i>Prionopleura.</i>
Antennæ, short . . .	subclavate . . . . .	<i>Onchosoma.</i>

PRIONOPLEURA (*πριων πλευρα*).

*Head* vertical, immersed in the thorax up to the eyes. *Eyes* reniform, with a deep sinus. *Antennæ* rather wide apart, inserted just in front of the sinus of the eye, as long or longer than the body; ♂, filiform, the six terminal joints somewhat more robust than the others, 11-jointed: first joint robust; second small globose; third and fifth longer than the remainder; the six terminal nearly of equal length; ♀, shorter than body; third, fourth and fifth joints nearly equal, the remaining decreasing in size, and broader. *Thorax* subquadrate, rounded in front, with the lateral margins dentate or rugose, the upper surface rough, with elevated rounded points. *Scutellum* quadrate, elevated behind. *Elytra* as broad as or a little broader than the thorax, longer than broad, the upper surface rugose. *Legs* short, robust. *Tarsi* 4-jointed, the third joint deeply bifid, and thickly padded underneath.

The type of this genus is the *Cryptocephalus rugicollis*, Gray.

## FIRST SUBDIVISION.

(Elytra with longitudinal elevated ridges more or less distinctly marked.)

Sp. 1. *Prionopleura bifasciata*, Hope. (Pl. XV. fig. 1, and details.)

Head rufous brown, with the portion above the insertion of the antennæ black, except two small lunate spots on the inner margin of the eyes; the forehead covered with small elevated points, and short silvery hairs. Eyes black. Antennæ black, with the second, third and fourth joints somewhat rufous, particularly beneath. Thorax rufous brown, with a black central longitudinal patch extending from margin to margin, somewhat diamond-shaped, and two lateral longitudinal black patches, one on each side, somewhat lunate, curving inwards. Scutellum slightly elevated behind, black, shining. Elytra rufous brown, deeply and coarsely punctured, with eight somewhat elevated longitudinal ridges faintly marked, having two broad black transverse bands, the first near the thorax, which narrows slightly in the middle, and extends into the shoulders, the second a little below the middle. Suture black. Under side of body dull rufous brown, covered with short, stiff, widely spread adpressed silvery hairs, the mesosternum dull black. Femora black, with the basal portions rufous brown. Tibiæ rufous brown, with the apices black. Tarsi black.

Length  $\frac{3.0}{100}$  inch.

Habitat New Holland.

In the Collection of the Rev. F. W. Hope.

A very distinct and pretty species.

Fig. 1 a, antenna; 1 b, prothorax; 1 c, leg.

Sp. 2. *Prionopleura crucicolle*. (*Cryptocephalus crucicollis*, Boisd.)

Head chesnut brown, covered with small raised points, having a black transverse mark across the forehead, close to the margin of the thorax, the centre of which is produced forwards into a point. Antennæ chesnut brown, rather robust. Thorax deep rufous brown, with a narrow, transverse, black band across the centre, produced in the middle, backwards and forwards, so as to form the short arms of a cross. Scutellum black, shining. Elytra deep rufous brown, deeply and coarsely punctured, with five distinctly elevated longitudinal ridges, and three alternate somewhat obscure ridges on the back of each, marked with three longitudinal black patches at the base, between the elevated ridges, extending about

one-fourth the length of the elytra, and an irregular transverse black band across the middle, which in some varieties is joined by the inner basal black patch. Suture black. Under side of body rufous brown, covered with short, silvery, widely spread hairs. Legs and tarsi rufous brown; femora marked with a black line along the upper surface.

Length  $\frac{3.0}{100}$  inch.

Habitat New Holland and Van Diemen's Land.

In the Collections of J. O. Westwood, Esq. and the Rev. F. W. Hope.

Sp. 3. *Prionopleura Hopei*, mihi.

Head rufous brown, with a broad black band down the forehead, between the eyes, and an oval spot of the same colour in front, on a line with the antennæ. Eyes black. Antennæ rather longer than the body, deep rufous brown, with the upper surface of the first joint, the whole of the terminal joint, and apex of the last joint but one, black. Thorax black, with a narrow margin of deep rufous brown, except just in front of the scutellum, where the black reaches the margin. Scutellum black, shining, smooth. Elytra deep rufous brown, deeply and coarsely punctured, with eight slightly elevated ridges, giving a rugose appearance, having two black patches at the base, one on the shoulders, and the other larger near the scutellum, which is prolonged posteriorly alongside the suture, and joins an irregular black transverse band, which crosses the middle. Under side of the body dull pitchy brown, with lighter shades, covered with short silvery adpressed hairs. Legs deep rufous brown; the femora with a black line along the upper side; tibiæ, with the apices, black. Tarsi black.

Length  $\frac{2.2}{100}$  inch.

Habitat Van Diemen's Land.

In the Collections of the Rev. F. W. Hope and J. O. Westwood, Esq.

This species is allied to the preceding, but abundantly differs in the colour of the head, thorax and legs, and in the smaller size.

Sp. 4. *Prionopleura crux-nigra*, Hope, MSS.

Head dark rufous brown, deeply immersed in the thorax, sprinkled with short silvery hairs; parts of the mouth yellow. Eyes black. Antennæ deep rufous brown, the terminal joint black.

Thorax very dark rufous brown, sprinkled with short silvery hairs, with a black transverse band across the centre, which is produced in the middle, backwards and forwards, so as to form the short arms of a cross. Elytra deeply and coarsely punctured, with a few short silvery hairs near the apex; with nine longitudinal ridges, the five nearest the suture distinctly defined; dark rufous brown, with a narrow longitudinal black streak on the shoulders, and a broad sickle-shaped black band, commencing near the scutellum, which extends down the suture to near the middle, and thence curving in a transverse direction towards the external margin, along which it runs nearly to the shoulders. Under side of the body pitchy brown, with short adpressed silvery hairs. Legs deep rufous brown; femora with a black line along the upper surface. Tarsi rufous brown.

Length  $\frac{2.5}{100}$  inch.

Habitat New Holland.

In the Collection of the Rev. F. W. Hope.

Another species nearly allied to *P. crucicollis*, but chiefly differing in the position of the markings on the elytra.

Sp. 5. *Prionopleura flavocincta*, mihi.

Head rufous brown, with a black transverse mark across the hinder part of the forehead. Eyes black. Antennæ rufous brown, with the two terminal joints black, about the length of the body. Thorax bright rufous brown, with a broad transverse central band produced in the middle, giving it somewhat a diamond shape. Scutellum dark brown. Elytra closely and minutely punctured, with nine distinct somewhat elevated ridges, deep rufous brown, crossed somewhat above the middle with a broad orange band, margined on each side with an interrupted black line. Under side of the body rufous brown, covered with short silvery adpressed hairs, the mesosternum having a large central triangular black patch. Legs and tarsi rufous brown; each femur with a black patch on the upper surface.

Length  $\frac{2.0}{100}$  inch.

Habitat New Holland. Capt. Roe.

In the Collection of the Rev. F. W. Hope.

A small and well marked species.

## SECOND SUBDIVISION.

(Elytra without elevated ridges.)

Sp. 6. *Prionopleura monochroa*, Bois.

Head dull orange, with a transverse line across the vertex, and a line down the face, reaching from the vertex to between the eyes, black. Antennæ as long as the body in the ♂, dull ochre, with the upper parts of the first and last joints black. Thorax and elytra uniform dull ochre, deeply and irregularly punctured, so as to give a rugose appearance to the surface. Scutellum small, black, quadrate, shining. Under side of body dull ochre, covered with short adpressed whitish hairs. Legs dull ochre, the tibiæ having a dark line along the upper surface. Tarsi dusky.

Length  $\frac{4.0}{1.00}$  inch.

In the Cabinet of the Rev. F. W. Hope.

Habitat Australia.

Sp. 7. *Prionopleura cognata*, Hope, MSS.

Head yellowish amber brown, covered with small paler tubercles. Labrum yellow. Eyes black. Antennæ two-thirds of the length of the body, yellowish brown, with the first joint black. Thorax with the lateral margins slightly dentate, amber brown, covered with somewhat large yellow tubercles, and having an obscure longitudinal narrow black line along the vertex. Scutellum quadrate, elevated posteriorly, ochre yellow. Elytra dull ochre yellow, deeply and irregularly punctured, with an ill-defined black band extending nearly across, a little below the centre, and extending upwards to near the scutellum, leaving the shoulders and lateral margins free. Under side of body yellow brown, covered with short adpressed pale yellow hairs. Legs dull reddish brown, with the femora beneath, and apices of the tibiæ externally black brown. Tarsi reddish brown, robust.

Length  $\frac{3.0}{1.00}$  inch; width  $\frac{1.8}{1.00}$ .

Habitat Van Diemen's Land.

In my own Cabinet and that of the Rev. F. W. Hope.

Sp. 8. *Prionopleura rugicollis*, Gray.

Head pale dull orange, sparingly clothed with yellow hairs, with a black streak down the face, commencing on the vertex, and an angular black line reaching across from the bases of the antennæ, and forming with the former a Y inverted. Antennæ as long as

the body, dull rufous brown, with the upper surface of the first joint black. Thorax with the lateral margins strongly dentate, covered with small pustules, intermixed with short shining yellow hairs; dull orange, with a broad longitudinal, somewhat lozenge-shaped, black brown patch along the whole length on the vertex. Scutellum dark chesnut brown, elevated behind, shining, somewhat quadrate, and strongly keeled. Elytra deeply and rugosely punctured, dull orange, with an obscure broad dark brown transverse fascia above the centre, and some obscure dark brown markings a little before the apex. Under side of body dull ochre yellow, clothed with very short whitish hairs. Legs dull chesnut brown, clothed with hairs of the same character.

Length  $\frac{5}{10}$  inch.

Habitat New South Wales.

In the Cabinet of the Rev. F. W. Hope.

The above description is drawn from a male insect. The female differs in having considerably shorter and more robust antennæ; is larger in size; has the broad transverse fascia of the elytra more clearly defined, and has the under side of the body darker.

Length  $\frac{3.5}{10}$  inch.

Habitat New South Wales.

In the Cabinet of the Rev. F. W. Hope.

#### GENUS ODONTODERES, Chevrolat, MSS.

*Head* immersed in the thorax up to the eyes. *Antennæ* wide apart, inserted just before the sinus of the eyes, subclavate, not quite so long as the body, 11-jointed: first joint pyriform; second small, globose; third, fourth and fifth long and slender, the fifth somewhat the longest; the remaining joints gradually decreasing in length but becoming more robust, and forming a kind of elongate clava, with the joints projecting slightly internally. *Thorax* nearly as broad as the elytra, transverse, rounded at the sides, with the lateral margins strongly and regularly dentate, convex above. *Scutellum* quadrate, elevated posteriorly. *Elytra* half as broad again as long, rounded at the apex. *Legs* moderate. *Tarsi* robust, the joints nearly equal in length.

*Odontoderes Australis*, Boisduval. (Plate XV. fig. 2, and details.)

Head black, rugosely punctured, with two small yellow marks on the face, situated close to the upper part of each eye. Antennæ and eyes black. Thorax black, covered with small regular tubercles. Scutellum smooth, quadrate, shining black. Elytra

yellow, shining, regularly and deeply punctured, each marked with three broad longitudinal black bands: the first somewhat triangular in shape, commencing near the scutellum and running half way along the suture; the second commencing near the shoulder and running to near the apex parallel to the first band and the suture; the third joining the second at the shoulder and running parallel to the lateral margin until it joins the second near the apex, enclosing with it an oblong oval yellow space. Under side of body black, clothed with short adpressed whitish hairs. Legs and tarsi black.

Length  $\frac{3}{100}$  inch.

Habitat Australia.

In the Cabinets of the Rev. F. W. Hope, Capt. Parry, &c.

There is a little variation of marking in some specimens, caused by the second longitudinal band of the elytra meeting the sutural band a little below the middle, as shown in the figure accompanying this description.

Fig. 2 a, antenna; 2 b, fore feet.

#### ONCHOSOMA, New Genus (Ογκος ωμος).

*Head* vertical, immersed in the thorax nearly up to the eyes. *Antennæ* short, a little longer than the thorax, 11-jointed: first joint long, stout, somewhat pyriform; second orbicular; third, fourth and fifth slender, rather long, equal in length; the remaining joints gradually becoming shorter, but at the same time more robust, and forming an elongate club. *Thorax* transverse, with the lateral margins dentate or rough, and having two more or less elevated protuberances on the upper surface, one on each side of the central line. *Scutellum* subquadrate, much narrowed and somewhat elevated behind. *Elytra* with the surface rugose, short, rather longer than broad, with the apices rounded. *Legs* short, robust. *Tarsi* robust, 4-jointed: first and second joints transverse; third longer, deeply bilobed; fourth joint narrow, laying in the cleft of the third, and barely exceeding it in length.

The species of this genus are easily distinguished by the two protuberances on the upper surface of the thorax, which gives them an unusual appearance among their congeners the *Cryptoccephalides*. The species are very uniform in size and in the brown tints of their colours. The genus *Brachycaulus*, described by Monsieur Fermaire, in the "Annales de la Société Entomologique de France, 1843, premier trimestre, p. 13," appears to be a very near approach to *Onchosoma* and may prove identical, in which

case *Brachycaulus* having the priority must replace the former. Monsieur Fermaire describes the antennæ as being "en scie dans la dernière partie de leur longueur," a character I have been unable to detect, and which, combined with other differences, makes me hesitate to apply the name of *Brachycaulus* to the species I am about to describe.

Sp. 1. *Onchosoma Ewingii*, W. W. S.

Head dark amber brown, rugose, with minute rounded elevations, interspersed with a few sandy hairs; mouth rufous. Antennæ rufous brown. Eyes black. Thorax with the lateral margins strongly crenate, having two elevated protuberances on the upper surface, one on each side of the central line, each protuberance with a fovea on the external side; dark amber brown, with a black round spot margined with dull yellow in each fovea. Scutellum subquadrate, narrowed behind, dark amber brown, clothed with whitish adpressed hairs. Elytra rugose, with rounded elevations and deep punctures interspersed with whitish hairs, having a row of small protuberances at the base parallel with the thorax; dark amber brown, with the hinder half dull ochre, punctured with brown, and with six or seven elevated lumps of the same colour near the apex, leaving an oblique fascia pointing forwards about the middle. Under side of body chesnut brown, minutely furrowed longitudinally, and having an orange spot between the insertion of the hinder legs. Legs robust, dark chesnut brown, regularly punctured. Tarsi reddish brown.

Length  $\frac{2.5}{100}$  inch.

Native of Van Diemen's Land.

In the Cabinets of J. O. Westwood, Esq., and Capt. Parry.

The first specimens of this species which were sent to this country were taken in Van Diemen's Land by Mr. Ewing, after whom I have named the species.

Sp. 2. *Onchosoma dorsalis*, W. W. S. (Pl. XV. fig. 3, and details.)

Head dark amber brown, deeply punctured; mouth light chesnut. Antennæ light rufous brown, with the enlarged joints somewhat darker. Eyes black. Thorax covered with minute rounded elevations, with the lateral margins strongly dentate, and having two elevated protuberances on the upper surface, one on each side of the central line, black, with the lateral margins, an indistinct band along the front, and a short band from the apex of each protuberance to the posterior margin, dull rufous. Scu-

tellum subquadrate, much narrowed behind, punctured, dark amber brown. Elytra deeply and irregularly punctured, marked with a kind of imperfect network of elevated nervures, and having a row of low protuberances along the base; dark amber brown, with a broad ochraceous band, commencing about the middle of the base and running in a curved direction to the lateral margin, and thence onwards until it reaches the suture a little below the middle, surrounding a large distinctly marked triangular area of the ground colour. Apex dull ochraceous. Under side of body dusky brown, minutely punctured and covered with short yellowish adpressed hairs. Legs robust, punctured, and tibiæ grooved longitudinally, dark rufous brown. Tarsi somewhat lighter.

Length  $\frac{2.5}{100}$  inch.

Habitat New Holland.

In the Cabinet of the Rev. F. W. Hope.

This I consider the typical species, and from which the generic description and figure were taken.

Fig. 3 a, antenna; 3 b, body seen sideways; 3 c, extremity of anterior tibia and tarsus.

Sp. 3. *Onchosoma Tasmanica*, W. W. S.

Head black brown, rugosely punctured, with a small round chesnut spot on the face between the eyes. Scutellum light chesnut. Eyes black. Thorax rugose, with small rounded elevations, interspersed with a few short sandy coloured hairs, having two rounded protuberances on the upper surface, one on each side of the central line; dull rufous, with a round black spot on the outer side of each protuberance, and an ill-defined black band extending from the anterior margin over each protuberance to the posterior margin. Scutellum subquadrate, much narrowed behind, dull rufous, covered with short sandy hairs. Elytra deeply and rugosely punctured, with irregular elevated longitudinal nervures, and two elevations near the base, one near the shoulder and the other about midway between the latter and the scutellum, black, with a broad rufous band across the middle, almost vanishing at the suture, and another band of the same colour running longitudinally from the latter to the base along the middle; apex dull rufous. Under side of body corneous yellow, with short adpressed hairs. Legs robust, very dark chesnut, punctured, and covered with short sandy hairs. Tarsi above nearly black.

Length  $\frac{2.0}{100}$  inch.

Native of Van Diemen's Land.

In my own Collection.

Sp. 4. *Onchosoma fovocollis*, Hope, MSS.

Head dark amber brown, rugose, sparingly covered with short sandy hairs. Antennæ dull rufous, robust. Thorax rugosely punctured, the punctures interspersed with sandy hairs, with the lateral margins dentate, and having two protuberances on the upper surface, one on each side of the central line; dark amber brown, inclining to rufous, on the lateral margins, with three round black spots bordered with sandy brown, one on the exterior side of each protuberance and one in the hollow between the thoracic elevations. Scutellum subquadrate, narrowed posteriorly; dull yellow, with the base black. Elytra rugosely punctured, with irregular longitudinal elevated nervures, and two elevations at the base, one near the shoulder and the other between that and the scutellum; dark amber brown, with an obsolete rufous brown fascia across the centre, and the apex of the same colour, the latter divided from the former by a row of ill-defined dark amber spots. Under side of body pale yellow, dusky towards the exterior margin, clothed with short adpressed whitish hairs. Legs robust, clothed with short whitish hairs; dark castaneous brown. Tarsi rather darker.

Length  $\frac{18}{100}$  inch.

Native of Van Diemen's Land.

In the Cabinet of the Rev. F. W. Hope.

There is a variety of this species in Capt. Parry's collection, in which the dark markings on the elytra have almost vanished, merely leaving a black spot on the shoulder and a few irregular spots of dark brown about the base and apex. This species has the third, fourth and fifth joints of the antennæ shorter and more robust than in the typical species.

Sp. 5. *Onchosoma Klugii*, Hope, MSS.

Head yellow brown, with a large triangular chesnut spot on the upper part of the face, and a wavy line of the same colour beneath, joining the lower extremity of the eyes. Antennæ light chesnut brown. Thorax rugose, with minute rounded elevations, having the lateral margins rough, and two elevated somewhat pointed protuberances on the upper surface, one on either side of the central line; yellow brown, with the protuberances dark chesnut, a narrow longitudinal line of the ground colour being left between them. Scutellum subquadrate, narrowed behind; yellow brown, with the base chesnut. Elytra very deeply and coarsely punctured, with irregular strongly elevated longitudinal nervures;

yellow brown, with a broad chesnut band extending from the shoulders to a little above the middle of the suture, and some irregular markings of the same colour towards the apex, leaving a broad band of the ground colour across the middle. Under side of the body chesnut brown, punctured. Legs dark chesnut brown, punctured. Tarsi of the same colour.

Length  $\frac{22}{100}$  inch.

Native of New Holland.

In the Cabinet of the Rev. F. W. Hope.

Sp. 6. *Onchosoma rufescens*, W. W. S.

Head punctured, dark amber brown, with some ill-defined rufous markings on the face. Antennæ reddish brown. Thorax rugosely punctured, with the lateral margins strongly crenate, and having two rounded protuberances on the upper surface, one on each side of the central line; chesnut brown, with a broad black band passing from the anterior to the posterior margin over each protuberance, and three rounded large black spots margined with castaneous, one the external side of each protuberance and one in the hollow between them. Scutellum subquadrate, narrowed behind, punctured, castaneous brown. Elytra deeply and rugosely punctured, with the longitudinal nervures but very indistinct, and having two slight elevations at the base, one on the shoulders and the other between that and the scutellum; dark chesnut brown, with a black patch on the shoulder, and an indistinct broad blackish band running along the basal half of the suture. Under side of body light reddish brown. Legs robust, punctured, chesnut brown, with a large black patch on the outer and inner sides of each femur a little below the middle. Tibiæ blackish towards the apex. Tarsi deep chesnut.

Length  $\frac{25}{100}$  inch.

In the Cabinet of Capt. Parry.

Habitat New Holland.

This is a species distinct in the sculpture of the elytra and markings; but owing to the specimen having been gummed it is difficult to make out the original colour.

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